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Modification and Development of High-Performance Liquid Chromatography (HPLC) Experiments

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Two high-performance liquid chromatography (HPLC) experiments were developed for Quantitative Analysis (CHEM 230). The first modified an existing experiment by replacing acetonitrile with methanol in the mobile phase to reduce the associated costs and environmental hazards. In the second, a new biochemistry-specific HPLC experiment was developed. Biochemical samples were digested and the resulting polypeptides were separated and quantified by HPLC with UV-Vis detection. Adding a more biochemistry-related experiment to Quantitative Analysis will benefit the large number of VU students pursuing careers in health fields and biochemical research.

Information about the Author:
Diandra Obermeyer is a senior chemistry student. She has shown great interest in High-Performance Liquid Chromatography (HPLC) over the past year. HPLC is a very popular and common instrument used by chemists in the industrial field. This project was created when Diandra expressed her desire to increase her exposure to and experience with the instrument.

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